

UNIVERSITY OF ALBERTA

folio

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New CRCs spotlight dinosaurs, gender, plants and proteins

U of A now holds 95 Canada Research Chairs

By Geoff McMaster

A world-renowned expert on dinosaurs, who comes to the University of Alberta from the Tyrrell Museum, is among four new Canada Research Chairs (CRC) announced today.

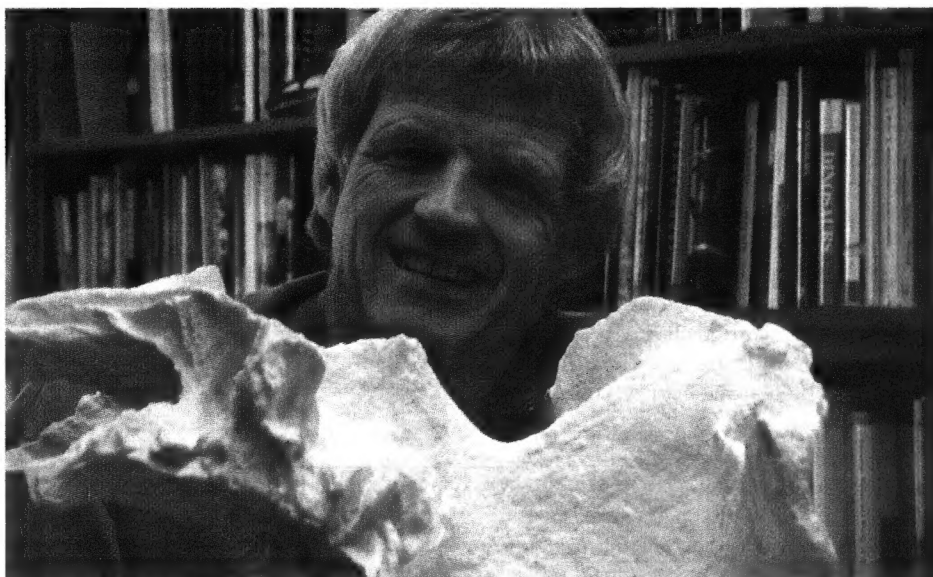
Calling his CRC in Systematics and Evolution Group the first and "long overdue pure dinosaur position" for a university in Alberta, Currie says he also looks forward to promoting dinosaur science.

"Worldwide there's been very little money put into dinosaur research in the past or in the present," said Currie. "Canada is a very special place because we have some of the richest resources in the late Cretaceous anywhere in the world, and there really should be a focus on that in our museums and universities."

Joining the U of A just last month, Currie has worked extensively on the discovery of feathered dinosaurs in China, meat-eating dinosaurs in Argentina, and on a pack of a dozen *Albertosaurus* from the badlands of central Alberta. The more than half-dozen species of feathered dinosaurs so far discovered "cover the range of meat-eating dinosaurs we have here in Alberta."

Working at the Alberta Provincial Museum in the early 1980s, Currie helped establish the Royal Tyrrell Museum in 1985. His seven-year, \$1.4 million chair will fund the continuation of his research on, among other things, the evolutionary relationship between theropod dinosaurs and their close living relatives-birds.

That close relationship to birds tells us much, says Currie. Because of the theropod's similarity to birds, it is now possible, for example, to determine the sex of a theropod specimen. As the female



Dr. Phil Currie with the cranium of a *Tyrannosaurus Rex*.

of both the dinosaurs and birds store up calcium in their bones before laying eggs, says Currie, surplus calcium is the tell-tale sign the specimen is female.

The relationship between the Tyrrell Museum and the U of A "will get even stronger now" with his appointment, but what excites Currie most about the chair is the chance to work with teams of students.

"Now I have my own students coming on, and I'll be able to pull together a bigger team towards working on all these projects I never got around to over the years," he said.

Other CRCs announced today include Dr. Cressida Heyes, who has been awarded \$500,000 over five years to examine popular and academic conceptions (and misconceptions) of sexual difference,

gender identity and sexual orientation. The new CRC in Philosophy of Gender and Sexuality aims to encourage a closer relationship between feminist and health sciences perspectives on issues of dieting, cosmetic surgery and transsexuality.

Dr. Christopher Power, in the Faculty of Medicine and Dentistry has been awarded \$1.4 million and has been named Canada Research Chair in Neurological Infection and Immunity.

Power is investigating the molecular bases of HIV-associated dementia and multiple sclerosis early in the diseases' courses, using cutting-edge neuroimaging, molecular biology and nanotechnologies with an interdisciplinary team approach that is unique in Canada and North America.

As CRC in Plant and Tree Biology, Dr.

Enrico Scarpella will pursue research in the largely unexplored field of plant vascular development, the system in plants that transports water and nutrients.

In addition to shedding light on the molecular process underlying this system, vascular tissue science also has the potential for a number of economic applications, such as the productivity of wood, paper and fabrics; amplification of fruit and foliage production; and the protection of plants against diseases that spread through the vascular tissues.

Exploring how proteins work in biological systems is Dr. Liang Li, who receives \$1.4 million with his CRC appointment in Analytical Chemistry. Li examines how proteins and metabolites are expressed in a given cell or tissue with the aid of mass spectrometry.

The science is important in many areas of bioscience and biomedical research, helping to better understand how proteins and metabolites develop in normal versus diseased cells. This information is invaluable in developing more targeted drugs to fight disease.

Three existing CRC holders at the U of A also had terms renewed for five more years: Dr. Sean Caulfield (art and design), Dr. Janet Elliott (engineering) and Dr. Chris Le (medicine) for a total of \$1.5 million.

The CRC program, valued at more than \$900 million across the country, was set up by the federal government to support outstanding researchers, helping them advance their careers among world-class colleagues and gain access to top graduate students and state-of-the-art research facilities. The U of A now holds 95 CRCs. ■

SHAPE OUR FUTURE



President Samarasekera invites you to share in shaping our future at one of two University of Alberta Town Hall meetings.

November 17

3:00 – 4:30 p.m.
Convocation Hall in
the Old Arts Building

November 23

3:00 – 4:30 p.m.
Maple Leaf Room in
Lister Centre

This is an opportunity for you to respond to the President's draft document on values and vision for the University of Alberta. President Samarasekera would like input from students, faculty and staff on this plan before moving forward. See the draft document, **Dare to Discover** at www.president.ualberta.ca.

Participate and enter to win one of two iPods at each meeting, courtesy of the U of A Bookstore.

Province awards U of A service

Centennial medals awarded to 25 university – affiliated leaders

By Caitlin Crawshaw

A one-time medal commemorating the province's centennial were bestowed upon 25 University of Alberta-affiliated leaders in a campus ceremony.

The Alberta Centennial Medal was awarded to nearly 8,000 Albertans nominated by their peers this year. The province invited the U of A to select university-affiliated leaders who have made major contributions to the province.

Internationally recognized cancer therapeutics researcher Dr. Carol Cass, alumnus and business leader Harry Hole, protective clothing researcher Dr. Elizabeth Crown, and oil sands researcher Dr. Jacob Masliyah are among the recipients.

"It's a good feeling," Masliyah said of the award. "It's a pat on the shoulder."

A long-time Faculty of Engineering professor who made great contributions to the development of the extraction process in Syncrude Canada's operations, Masliyah came to Alberta in 1964 to pursue a career in academe – a fact that adds significance to the award, he says.

"For all of us who were not born here, it's a recognition that we contributed to our adopted country."

Dr. Carol Cass has received much acclaim for her scientific work throughout the years, but says she's particularly hon-

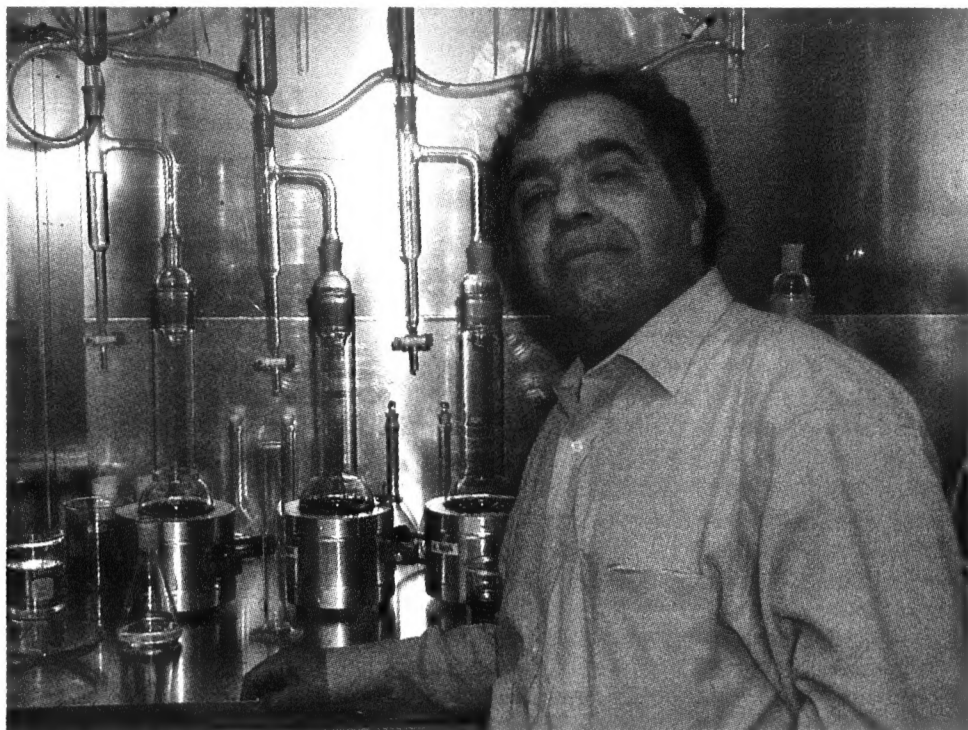
"For all of us who were not born here, it's a recognition that we contributed to our adopted country."

– Dr. Jacob Masliyah

oured to be receiving this medal.

"It may be one of the best awards like this that I've ever received," she said. "When you look at the size of the U of A, and the people, past and present, which could have been considered, I realized that this is a substantial honour. It's not just faculty members – it's people who've served the university through participation on the Board of Governors, it's people who are no longer active members of the university, people who've retired. It is a large group of very talented people who've made enormous contributions to the university."

The U of A recipients of the Alberta Centennial Medal include Harold B. Banister, Dr. Doris Baskerville Badir, Dr. Roy T. Berg, Dr. Phyllis Cardinal, Dr. Carol E. Cass, Dr. Elizabeth Crown, Dr. Robert J. de Frece, James Stewart Edwards, Dr. Anne Fanning, Dr. Anthony Fields, Walid



Alberta Centennial Medal recipient Dr. Jacob Masliyah.

Haymour, Harry Hole, George Hughes, Dr. Michael N.G. James, Dr. Thomas E. Kieren, Michael A. Kostek, Dr. John Kuspira, Dr. Jacob Masliyah, Dr. John McDonald and

Dr. Juliet McMaster, Anita Moore, Dr. Jonathan Schaeffer, Kimberly Smith, Linda van Gastel, Dr. John Vederas and Ralph Young. ■

folio

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University lays foundation for rural health sciences education

Augustana Faculty partners with the East Central Health region

By Beverly Betkowski

The University of Alberta's Augustana Faculty and the neighbouring East Central Health region have formed a unique partnership to provide rural Albertans with increased opportunities to pursue professional health education and careers.

Alberta's Advanced Education Minister Dave Hancock and Health and Wellness Minister Iris Evans joined officials from both organizations today to sign a Memorandum of Understanding. The ceremony was held at the U of A Augustana Faculty, in Camrose.

"Through this agreement, the University of Alberta brings its strengths of teaching, research and citizenship to rural Albertans," said Dr. Indira Samarasekera, president of the U of A. "By sharing our knowledge with practicing health professionals and exploring new opportunities for training our students in medicine, rehabilitation and social sciences, we can focus on the needs of residents within the East Central Health region, and in the longer term, contribute to the overall well-being of rural Albertans."

"East Central Health has had great success pursuing a 'grow your own' philosophy that provides health-related educational and career opportunities for our rural residents near the communities where they live and work," said Ed Andersen, board chair of East Central Health. "This agreement elevates that philosophy to the next level and opens an exciting new range of possibilities."

The agreement commits the U of A and East Central Health to collaborate on priorities including health and social sciences education, research and leadership.



Advanced Education Minister Dave Hancock and U of A President Indira Samarasekera.

East Central Health is one of nine regional health authorities in Alberta and provides services to 110,000 residents in 84 rural communities encompassed in 34,000 square kilometres.

Among those professionals to benefit are nurses already working within the East Central Health region, U of A health science and medical students, and rehabilitation professionals. Potential initiatives include developing rural practicum placements and internships for social sciences students, exploring new opportunities to train medical students and residents, and exploring ways to enhance the training of professionals in rural aging. The university offers newly approved graduate specializations in aging within the Department of Human Ecology, and the faculties of Nursing and Rehabilitation Sciences.

"Improving access and providing more learning opportunities for students, regard-

less of where they live in the province, is one of my primary goals," said Hancock. "Residents of rural communities will benefit tremendously from these valuable partnerships between educators and health-care providers. This agreement will also enrich the teaching and training opportunities for staff and students."

Rural Albertans will also benefit as health-related research leads to improvements in the quality and delivery of health care.

"The partnership between the University of Alberta and East Central Health helps address the challenge of how to attract enough health-care professionals to serve the health needs of rural Albertans," Evans said. "East Central Health residents will benefit from students and health professionals who have new opportunities to train, work and do research in their communities." ■

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The measure of success

Ranking systems like Maclean's evaluate the quality of universities. But is there more we should be looking at?

By Caitlin Crawshaw

Each year, University of Alberta faculty and students are recognized for their academic contributions, with numerous awards and acknowledgements from industry, government and academe. The university holds 95 Canada Research Chairs, for instance, and 77 Royal Society fellows are senior U of A researchers. Campus scholars regularly publish in highly regarded journals, and make the pages of newspapers locally, nationally and internationally. And there are rankings, like the *Maclean's* rankings released earlier this month, which measure how Canadian universities compare to one another.

As the U of A works to achieve its goal of becoming a great university, it becomes increasingly important for the university to assess where it's been, and how it's progressing. According to President Indira Samarasekera, assessing the U of A properly involves examining many metrics, including university ranking systems. But there is no litmus test for whether the university has become great, and one mustn't take rankings at face value.

"I think you look at some key elements to gauge success, and rankings don't always measure them all," said Samarasekera.

"The first and most important key element is how students, both undergraduate and graduate, perform once they leave the University of Alberta. How successful are they? Do they become leaders in every sphere of life? Are they fulfilled? Do they feel they've been able to discover their passions and that they feel they can make a contribution to Alberta and Canada?"

Universities, Samarasekera says, have a twin role in educating people and creating new knowledge. It's easier to measure new knowledge, because one can examine the publications produced at a university, faculty awards, discoveries, paintings, books and more.

"The rankings that come out attempt to measure the two imperfectly. So we can

talk about the *Maclean's* ranking in that light," she said.

The magazine's annual ranking, which divides Canadian universities into categories according to size and program offerings, listed the U of A sixth out of the 15 Canadian universities with medical schools, including the University of Toronto, Queen's, McGill University and the University of British Columbia. The U of A has held on to its spot for six years.

For Samarasekera, the results didn't come as a surprise at all, due to the limitations of several of the survey's indicators, including the entrance grade category. The U of A's entrance grades are lower than other universities, as the school systems in other provinces inflate grades, says Samarasekera. The Alberta high school graduate entering the U of A with an 80-per-cent grade average would most likely score an 86-per-cent average in another Canadian school system, she notes.

Another component of the *Maclean's* evaluation is class size, which the U of A has struggled to improve on. Samarasekera noted that the faculty-student ratio dropped from 14:1 in 1992, to 21:1 to 2004. But the U of A can do little to change that without increased government funding.

"Our funding per student is seventh in Canada," she said, adding that without increased funding, smaller classes aren't going to be a reality.

But while there are limitations to the *Maclean's* ranking system, it's a tool the university can use to improve itself, Samarasekera noted.

"I think that while we might quibble over some of these things, the fact is that it gives us a chance to look at a set of metrics with which we can compare ourselves to our peers," she said.

"I think our challenge is to keep working with *Maclean's* to improve how they measure their average entry grade, and the rest of it we'll have to get better at. We have to convince our provincial govern-

ment to invest more, so we're not 11th in class size, and 10th in tenured faculty."

For Dr. Patricia Demers, the president of the Royal Society of Canada and recent University Cup recipient, university rankings like *Maclean's* miss critical variables.

"One of the indicators that isn't in the *Maclean's* ranking is the number of Royal Society fellows on a campus," she said. Demers added that the number of Royal Society fellows a university has reflects the excellence and maturity of a campus.

"Another indicator that isn't taken into account is a kind of, for lack of a better term, longitudinal or cumulative understanding of education. For instance, how many undergraduate students continue on to do graduate degrees? This isn't reflected in the *Maclean's* survey, which mostly concentrates on undergraduates and I think is mostly aimed at chequebook-holding parents."

Students' Union President Graham Lettner also figures the results should be taken with a grain of salt, calling the *Maclean's* survey a "pretty crude instrument." While it does help students become familiar with the best schools in the country, it's only one element students examine when picking a good quality school.

"A ranking's just one factor, but do you live in Northern Alberta, do you have family that lives in Edmonton, do you know people who are already there? For an undergraduate, sure they want to go to a good school. But is someone going to pick up from Prince George and move all the way to Antigonish to go to Saint Francis-Xavier? Maybe not," he said. "It's a factor, but I don't think it's an over-arching factor."

However, while rankings have limits, universities can and should be evaluated both quantitatively and qualitatively.

For Samarasekera, it is absolutely critical to evaluate our university and to take rankings seriously, though we may point out their faults. After all, we cannot opt out

"The first and most important key element is how students, both undergraduate and graduate, perform once they leave the University of Alberta. How successful are they? Do they become leaders in every sphere of life? Are they fulfilled? Do they feel they've been able to discover their passions and that they feel they can make a contribution to Alberta and Canada?"

— President Indira Samarasekera

of them, and both students and faculty do look to them to determine where they wish to study and conduct research.

"It's important to note that none of these rankings are perfect, they all use different metrics. What's important, however, is that they're out there, and you can't pretend they don't exist."

Particularly of note are international rankings, like the 2005 Shanghai Jiaotong ranking of 500 world universities, in which The U of A ranked 149th. For the U of A to advance, it needs to attract the brightest researchers and students worldwide, and this involves improving our international reputation.

"Ultimately, the barometer of whether we're a great university is if students from all around the world want to attend your university, and if faculty from across the world want to obtain a position at your university," Samarasekera said. ■

U of A display shows off pieces of the heavens

New exhibit features 13 ancient meteorites

By **Bev Betkowski**

Some astounding pieces of the solar system have been unveiled as the University of Alberta opens an out-of-this world meteorite exhibit in its Mineralogy and Petrology Museum.

Thirteen ancient meteorites – space rocks – have been pulled from the U of A's longstanding collection for permanent public display in the museum, located in Room B-08 of the Earth and Atmospheric Sciences Building.

The extraterrestrial rocks date back as far as 4.5 billion years, when the solar system was born. They showcase some of the best of the university's 1,150-specimen collection, which is second in size only to the National Meteorite Collection in Ottawa.

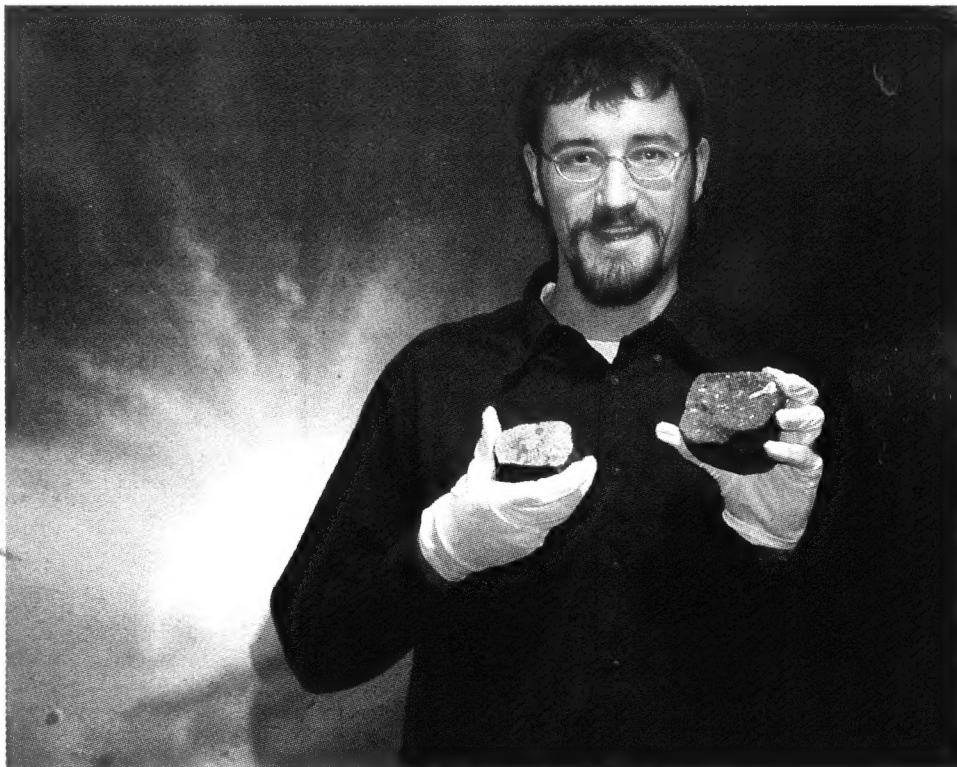
"It's not everyday you get to see a rock from space. They are the oldest things you'll ever see," said Dr. Christopher Herd, curator of the collection and a professor in the U of A Department of Earth and Atmospheric Sciences.

At one time, there was a collection of meteorites on display in the old Arts Building on campus, but it was decided they were too valuable to be left out, Herd said. But when he was appointed curator of the collection last year, he knew it deserved some public exposure.

"This is a world-class exhibit. You get a good idea of what meteorites look like and what they can tell us. We've picked really good samples to show various features."

The display of 13 specimens shows the variety of colours and textures in the meteorites that crashed into farmers' fields in Alberta or other places around the globe and were, by some miracle, picked up by keen-eyed observers.

"This material is what everything was made from – the dust and gas around the



Dr. Christopher Herd and two of the extraterrestrial rocks seen in the display.

early sun. Pieces got stuck together and got bigger and bigger to form planets," Herd said. "This stuff was preserved for us to look at, and these meteorites tell us about the origin of the solar system."

The U of A collection began in 1915 with a piece of what is known as the Brenham Kansas Meteorite, and grew over the years as more finds were added. The Edmonton Meteorite was discovered in the '30s north of the city. In 1960, the Bruderheim Meteorite fell to Earth, and Dr. Bob Folinsbee, a U of A geology pro-

fessor, took his students, staff, volunteers and colleagues out into the field – literally – to hunt for pieces of the rock. He also purchased fragments from farmers and collected more than 300 kilograms of material, Herd said. The new display features a 22-kg chunk of the Bruderheim find.

Through his international work, Folinsbee was also able to acquire pieces of a meteorite that fell in Mexico in 1969 and is believed to be one of the most primitive specimens.

The rocks on display range in colour,

"This is a world-class exhibit. You get a good idea of what meteorites look like and what they can tell us. We've picked really good samples to show various features."

— Dr. Christopher Herd

shape and size. Some are black, or as wavy in texture as the human brain. One, a rare fragment found near Springwater, Sask. in 1931, is studded with what looks like amber jewels, thanks to the combination of iron metal and olivine, a greenish-yellow mineral trapped in the core of the rock.

While these meteorites are consigned to museum cases, they should not be considered relics of the past, Herd said. Today, they are being studied for what clues they can reveal about asteroids, including research at the U of A focused on the geology of Mars' surface and interior core.

Research has also revealed amino acids in meteorites. "The environment around the early sun was such that you had organic molecules, and they potentially seeded the planets with the stuff you need for life." ■

U of A rewarded with its own asteroid

Amateur astronomer names discovery after his alma mater

By **Beverly Betkowski**

The University of Alberta really is out of this world, thanks to a grateful alumnus.

Andrew Lowe, an avid amateur astronomer who has studied asteroids in the night sky for years, has named one of his latest finds for the U of A. 'Uofalberta' was discovered Aug. 17, 2002 by Lowe, who graduated in 1982 with a bachelor of science in geophysics.

Now a Calgary resident working for EnCana Corporation as an exploration geophysicist, Lowe wanted to find a fitting way to pay back the U of A for giving him a good career start more than two decades ago.

"I have lots of fond memories of the U of A and my job here is directly as a result of the training I got. The environment at the U of A is so pro-science. As a result of getting that training I have had a successful career."

Lowe has studied the sky since he was eight, and has always been astounded by the variety of bodies in the sky. "There are so many different things you can be interested in. I like asteroids (which are fragments of bigger planets that have collided) because they combine my interest in computers, math and calculations."

Lowe, who tracks the space rocks with the aid of a computer linked to telescopes in California and New Mexico, has been credited with discovering 234 asteroids. Many of them bear the names of his friends and family members. Calgary, Edmonton and the occasion of the province's centenary have also received their own designated asteroids, as does Dr. Douglas Hube, who taught Lowe at the U of A.

"Even after discovering 234 asteroids, there is always a thrill when you find one no one else has found."

— Andrew Lowe

The asteroid which became Uofalberta was first photographed by professional surveyors in 2002 in California and then promptly forgotten, as the search was on instead for so-called Earth approachers – asteroids on possible collision courses with Earth. The photo of Uofalberta was dumped in an archive, which was then posted online for amateurs like Lowe to view. He found it, and after tracking it over a lengthy period of time, was able to confirm that the asteroid's orbit was good enough that it would never get lost.

The asteroid was then approved by the Minor Plant Center at the Smithsonian Astrophysical Observatory in Cambridge, Mass. – a clearinghouse for such discoveries. The asteroid was assigned a number and its provisional designation of 2002 QV53 – and that inspired Lowe when he received clearance to name his discovery.

"The initials of the U of A motto Quaecumque Vera (whatsoever things are

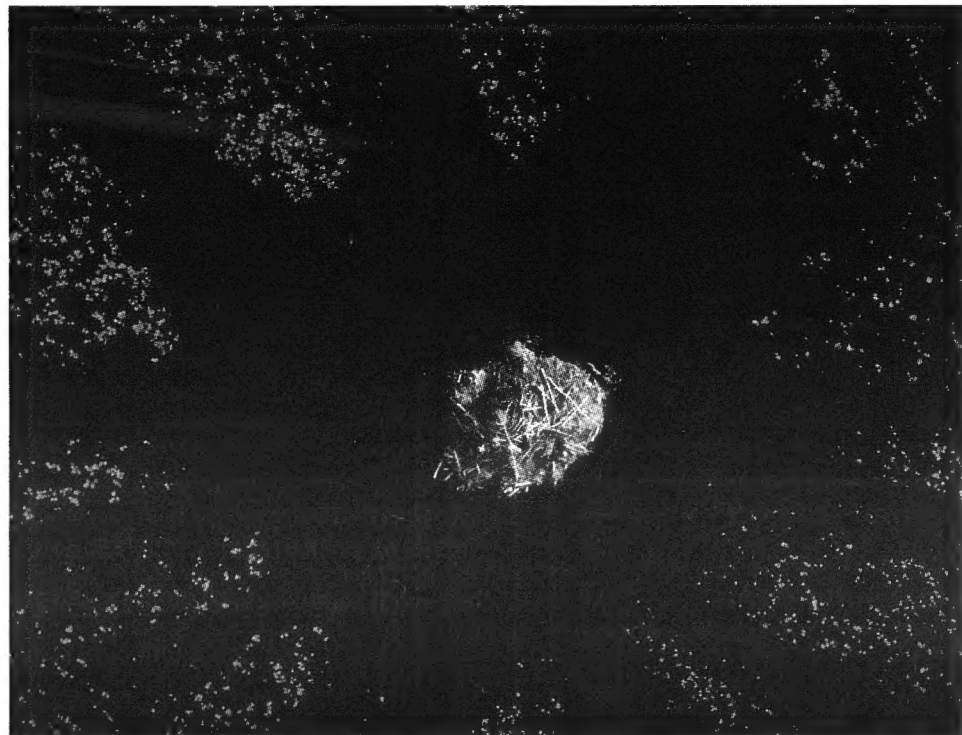
true) appear in the provisional designation."

The U of A asteroid is about five kilometres in diameter and lies between Mars and Jupiter, about 330 million kilometres from Earth. Asteroids vary in size from 1,000 kilometres in diameter to pebble-sized. Uofalberta "is pretty tiny but it's still a good-sized mountain if you put it on the scale of the Earth," Lowe noted.

Asteroids were unkindly dubbed as 'vermin of the sky' by professional astrono-

mers of many years ago, because they left annoying streaks on exposed photographs of the night sky. Lowe bears no such ill feeling, but one of affection.

"Even after discovering 234 asteroids, there is always a thrill when you find one no one else has found." He is proud of the fact that he's even got one named for him by the International Astronomical Union. "Long after I'm gone there will be that little rock up there with my name on it, forever in the database." ■



An asteroid, much like this one, now bears the name 'Uofalberta' after its finder's favourite university.

Project captures early prairie life

Book compiles stories of those who made a life on the prairies in the early 1900s

By Phoebe Dey

A new collection of stories depicting life on the Prairies before 1939 has been unveiled by the University of Alberta's Ukrainian Folklore Centre.

The project, Local Culture and Diversity on the Prairies, is the result of three years of fieldwork that documents everyday life, cultural identity and regional variation among people of Ukrainian, French, German and English heritage. The research team interviewed 700 individuals from 450 locations across the Prairies. The goal was to learn how people from diverse backgrounds interacted, adapted and became Prairie Canadians in the first half of the 20th Century. The project was largely backed by the Friends of the Ukrainian Folklore Centre, a community-based, non-profit organization that provides support to the U of A centre. The volunteer-run group received a \$300,000 grant from the Department of Canadian Heritage, Multiculturalism for this project.

"We knew it was a valuable project when we designed it, and now we see so much more potential than we first had," said Dr. Andriy Nahachewsky, principal investigator on the project and head of the U of A's Ukrainian Folklore Centre. "We learned that people became close to their neighbours and developed a strong commitment to their local community, while still remaining close to their other identities as well. In fact, experiences on the Prairies may have made them more Ukrainian or more French in some situations."

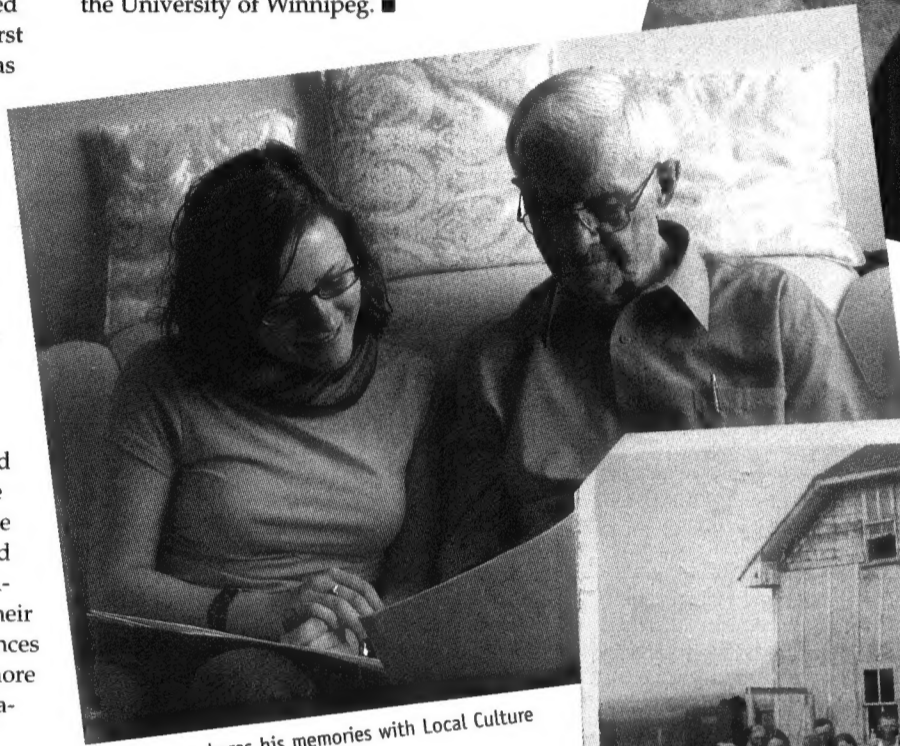
In one story, a woman remembers as a young girl when her 14-year-old sister died. The body remained in a coffin at home, until neighbourhood boys carried it to the community cemetery. Photographs were a rarity then, but the family took several pictures to catalogue the loss – worn images that the woman hangs onto today.

Another man recalls his mother standing over a wood stove, stirring a pot of soup and "crying bitterly." That day, it turns out, the outbreak of war was announced and the prospect of sending her four boys to fight "filled her with dread."

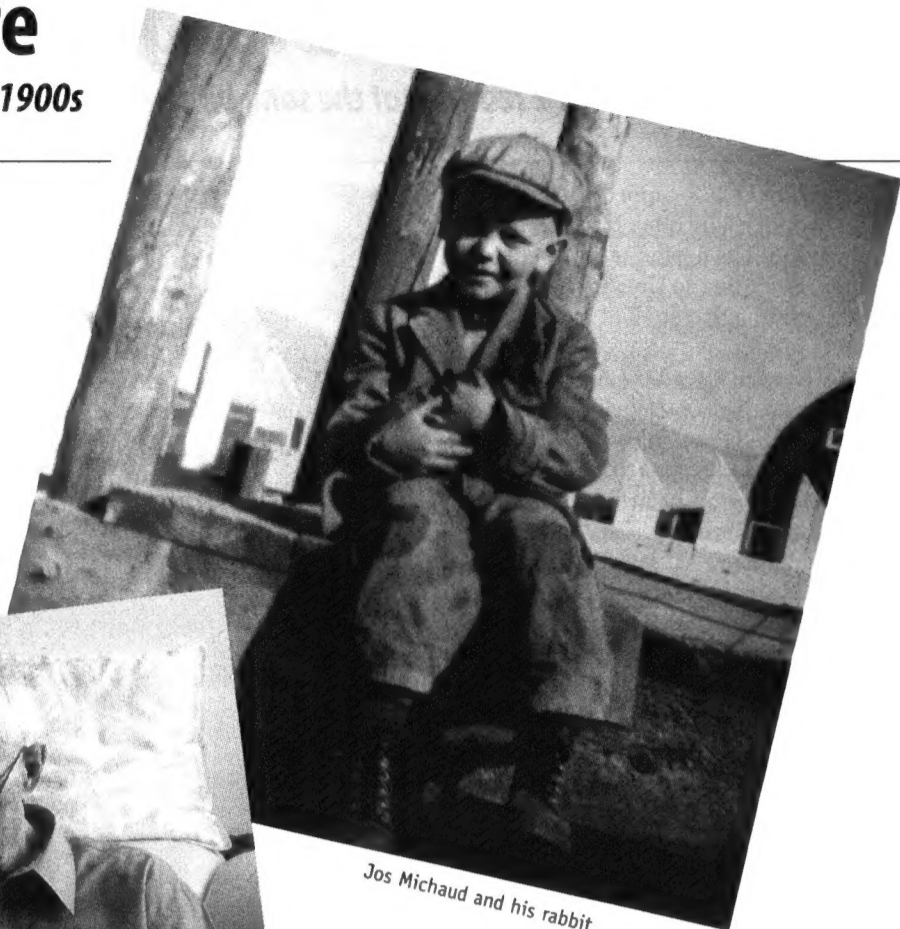
These stories are a sampling of a 30-minute movie that highlights some of the memories of life on the Prairies. The full collection of interviews is housed at the Bohdan Medwidsky Ukrainian Folklore Archives in the Ukrainian Folklore Centre at the U of A.

"This is an important contribution by one of our faculty's outstanding research units to the preservation of Alberta's past," said Dr. Daniel Woolf, Dean of the Faculty of Arts. "Oral history is often the only means of preserving the voice of earlier generations. The Ukrainian Folklore Centre continues to ensure that important aspects of Alberta's immigrant history will remain alive and available to the public, students and future scholars."

Partners for the project include researchers from Campus Saint-Jean and the University of Winnipeg. ■



Peter Froese shares his memories with Local Culture fieldworker Christine Kampen



Jos Michaud and his rabbit.



Brothers giving rides on the wagon.



A photograph of the video interview with Harry Beskorovayny on his farm near Gronlid, SK. Gary Kinaschuk stands at the camera and Nadya Foty listens to Harry's stories.

More of Tibetan Plateau's secrets revealed

Physicist examines how Tibet became the 'roof of the world'

By Phoebe Dey

A University of Alberta physicist who helped solve the age-old mystery of what keeps the highest plateau on Earth afloat, has added more pieces to the Tibetan puzzle. Dr. Martyn Unsworth has uncovered new research about the Tibetan Plateau—an immense region that for years has plagued scientists studying how the area became so elevated.

Several years ago, Unsworth and a team of scientists from China and the United States used low-frequency radio waves to determine that the mid-crust of the plateau is like "a big waterbed." The hot, molten rocks supporting the plateau are less dense than cold rocks, which means they rise up slowly, similar to how a hot-air balloon works. The discovery provides an explanation for how the whole of Tibet could rise up over mil-

lions of years.

After that finding, Unsworth returned to Tibet and has since learned that this geological make-up is typical of the whole length of the Himalayas, not just a small region. "We initially thought that this layer might be a local structure, but it's not so," said Unsworth, a professor in the U of A Faculty of Science. His research results are published in the current edition of the scientific journal, *Nature*.

Dubbed "the roof of the world," or the "abode of the Gods," the plateau contains not only Mount Everest but also all of the world's territory higher than 4,000 metres. The area was formed when India rammed into Asia about 50 million years ago and is considered a showcase of plate tectonics. Although many theories have been proposed to explain the unusual thickness

of the plateau—its crust doubles the average 30 to 35-kilometre thickness found the world over—little concrete evidence has been offered. Tibet was closed to foreign access until the 1980s, when French and Chinese scientists collaborated to investigate the plateau. Since then, Unsworth and his international research team have made many significant findings, and access to data collected in India was recently negotiated.

These newest results have allowed Unsworth and his research team to quantify how much flow, or viscosity, is taking place. "These models are important because they give observations that constrain many theories about what happens when mountains are formed," said Unsworth. "This has implications in many areas of Earth science, since all continents

were formed in the past by a series of continent-continent collisions."

In Canada, for example, we cannot easily study collisions that occurred in the distant past, said Unsworth, but we can look at these geological processes where they are active today. Last summer he began a similar project in Eastern Turkey, where two plates are colliding. This collision zone is at an earlier stage than Tibet and may give some clues about the temporal evolution, he believes.

This work was supported by the U.S. National Science Foundation, the Ministry of Land and Resources of China, the Ministry of Education of China, the National Science Foundation of China, the Natural Sciences and Engineering Research Council of Canada and the Alberta Ingenuity Fund. ■

Chickadees have a language of their own

Research explores acoustic features of the song bird's call

By Phoebe Dey

A deep-voiced black-capped chickadee may wonder why other birds ignore it, but there could be a good reason behind the snub, according to University of Alberta research that studied how the bird responds to calls.

Dr. Chris Sturdy, a U of A psychology professor, and Dr. Isabelle Charrier, a post-doctoral fellow in Sturdy's lab, modified the black-capped chickadee calls, played those sounds back to the bird and observed how it reacted. They found that the chickadee relies on several acoustic features including pitch, order of the notes and rhythm of the call. It also rejected the calls of the control bird, the gray-crowned rosy finch, in favour of its own species. The findings are published in the current edition of the journal *Behavioural Processes*.

The chickadee's two most well-known vocalizations are the "chick-a-dee" call and the "fee-bee" song. The song is produced mainly by males and is used to attract a mate and defend a territory during the breeding season. The learned call is produced by both sexes throughout the year and is believed to serve a variety of functions, such as raising a mild alarm, maintaining contact between mates and coordinating flock activities. The chickadees even go through stages of learning this 'language' which explains why juvenile birds can be heard frantically practicing to perfect the call.

In this study, Sturdy and Charrier discovered that if they raised the pitch, the bird would still respond, but if they lowered it, the chickadee stopped answering.

"We speculate that this happens because the pitch may be related to size, so the chickadee thinks, 'Wow, that bird sounds big,' and they stay away from it," Sturdy said. "The first thing birds use to identify vocalizations is the frequency range. Different birds use different acoustic ranges as a filter, so if it is too high or too low, they ignore it."



Dr. Christopher Sturdy birdwatching on campus.

"This research shows that there is a functional aspect to these calls. Some note types may be tied to food-gathering or trying to get birds around a feeder and this is laying the foundation for decoding these sounds on a fine scale."

— Dr. Chris Sturdy

When the scientists switched around the order of the notes in the sound, the birds didn't respond to those calls. When the space between the sounds

increased – there was no difference when they decreased – the chickadees stopped responding.

"These changes are so slight to our ears that we wouldn't be able to tell the difference, but a chickadee can," said Sturdy, who adds that the way chickadees learn vocalizations is parallel to the way humans learn language. "This research shows that there is a functional aspect to these calls. Some note types may be tied to food-gathering or trying to get birds around a feeder and this is laying the foundation for decoding these sounds on a fine scale."

Sturdy said this research will help iden-

tify in which social contexts black-capped chickadees are more sensitive to a particular type of call.

Sturdy's work was supported by a Natural Sciences and Engineering Research Council of Canada (NSERC) Discovery grant, an Alberta Ingenuity Fund (AIF) New Faculty Grant, a Canada Foundation for Innovation (CFI) New Opportunities Grant, along with start-up and CFI Partner Funding from the University of Alberta. Charrier was funded by an Izaak Walton Killam Memorial Trust Postdoctoral Fellowship and an Alberta Ingenuity Postdoctoral Fellowship. ■

These boots were made for walking

But what else were they made for? Master's project examines fetish wear and mainstream fashion

By Richard Cairney

In August, Time magazine published a photo of U.S. Secretary of State Condoleezza Rice not for what she was doing, but for what she was wearing. While visiting troops in Germany, Rice, arguably the most powerful woman in the world, was "making a fashion power statement in sexy stiletto boots," the magazine reported, somewhat breathlessly.

Indeed, Rice looked as if she'd just come off the set of *The Matrix*, or *Star Wars* or, some might say, from a fetish fashion show.

"It's interesting. Stilettos can be worn by a dominatrix and they can also be used almost as a form of bondage, because it does restrict some of your movement," observes Carolyn Dowdell. Her exhibit, *Fetish Fashion and You: What you never knew was lurking in your closet*, examines the ever-blurring line between fetish wear favoured by members of the Bondage, Domination and Sado-Masochism community and mainstream fashions, like outfits typically worn by secretaries of state.

"When you wear stilettos, you have to be careful," she adds. "Your balance is off; you're perched precariously and you have to take deliberate, dainty steps."

And yes, she says, "they hurt."

Dowdell has drawn upon her own fetish fashion collection and creations, and has borrowed some items to create the exhibit. Alongside fashion that could be either fetishwear or mainstream fashion are print ads that have a decidedly kinky feel: an

ad for wrist watches has an unmistakable bondage flavour, while running shoe ads with pop star Christina Aguilera feature naughtily dressed nurses and policewomen.

It's just one of many cases of mainstream fashion borrowing from an underground culture. When Dowdell sees young girls wearing chokers in West Edmonton Mall, for example, she's aware that they're sporting fashions used in domination and submission.

"A collar with a ring in it suggests the person is submissive," she says. "Most people don't know these things can have a specific meaning."



So some people might unknowingly be sending out a sexual subtext through what they wear.

"But people in the fetish community tend to be very respectful and polite and don't



assume anything about you – they'll ask."

Fetish Fashion and You is on display in the basement of the Human Ecology building until Dec. 9. ■



Carolyn Dowdell models various items on display at the *Fetish Fashion and You* exhibit.

Province commits to Bay building project, tops up endowments

\$15 million for downtown location, \$500 million for Access to the Future endowment

By Richard Cairney

The Alberta government announced Wednesday it will contribute \$15 million to the University of Alberta's purchase and renovation of the Hudson's Bay building in downtown Edmonton, and an additional \$500 million to the new Access to the Future Fund for post-secondary education.

The Bay building is being renovated to house the university's commercialization initiatives and TEC Edmonton, a joint venture with the City of Edmonton through the Edmonton Economic Development Corporation. The university plans to relocate its Research Transition Facility from its campus location. The long-term plan for the renovated Jasper Avenue downtown facility may also feature professional devel-

opment opportunities.

"We're creating a dynamic hub for delivering innovation right in the heart of Edmonton's downtown business district," said Dr. Indira Samarasekera, president of the University of Alberta. "The province's investment will greatly help accelerate our technology commercialization activities. Development of a new research transition facility in the Bay building advances the university's long-term plan to bring new ideas and discoveries to the community and throughout the province."

The Access to the Future Fund, an endowment established by the province this spring, received an injection of \$500 million Wednesday, bringing it to \$750 mil-

lion. Interest from the fund will provide seed money for innovations in post-secondary education, and for matching grants to stimulate private, industry, and other contributions to advanced learning. Once fully funded at \$3 billion, the endowment will generate \$135 million each year.

U of A Provost and Vice-President (Academic) Dr. Carl Amrhein said the investment is exciting.

"This is wonderful news. We look forward to the investment of the full \$3 billion, and there has been a very broad-based positive reaction to the possibilities of matching donations from the donor community," he said. "As soon as we can get to the \$3 billion level the sooner we will be able to satisfy all

those who are anxious to invest in post-secondary education in Alberta."

An additional \$100 million of the planned \$500-million expansion of the Science and Engineering Endowment Fund (known as the Ingenuity Fund) is also in place to help spur innovation in Alberta.

A total of \$1.3 billion has been committed this year for endowment funds, including \$250 million more for the Heritage Scholarship Fund, \$200 million more for the Heritage Medical Research Fund, and \$750 million in investment towards the Access to the Future Fund.

These investments are part of the Alberta government's plan to save for the future using this year's surplus. ■

Talking turkey at the rodeo

Innovative animal sciences assignment takes on game-show look

By Lee Craig

Do you know if a turkey can drown in a rainstorm? Whether a hen listens when the rooster crows?

If you had attended the fourth edition of There's a Heifer in Your Tank, a mix of education and fun organized by the University of Alberta Faculty of Agriculture, Forest, and Home Economics, you'd know the answers. And you would have shared an entertaining and enlightening evening with a packed auditorium of parents, faculty, students – some dressed in animal costumes – and two well-behaved cows.

During the show, staged at the Agricor during the Canadian Finals Rodeo last week, students staged skits that answered questions about animal science or give, as Dr. Frank Robinson, a professor in and the associate dean (academic) of the faculty phrases it, "science answers to questions you didn't know you had."

A pool of questions comes from a combination of industry representatives, Robinson and audience members. The Animal Science students select questions they want to answer and conduct the research as a project for the show. Panelists ask the students follow-up questions once the demonstration is over.

Robinson, who earned a Rutherford Award for Excellence in Undergraduate



Animal Science students Gita Gunson and Renee Leduc answer the question 'Do the hens listen when the rooster crows?' Turns out the answer is 'only when he's saying something important.'

Teaching in 2004, said students have responded very well to this way of learning. There have been three Heifer in Your

Tank programs at the U of A and one run at Lendrum Elementary School in Edmonton. "Some people like me who have been

teaching for 20 years may think that they could not change a course in a major way from the traditional lectures and have it be successful. I had concerns about it at first, but I am living proof that a 47-year-old prof is still capable of some new innovative teaching thoughts," he said.

The lively Heifer in Your Tank team, all of them from Animal Science 200 in the Faculty of Agriculture, Forestry and Home Economics, had won the Canadian Agri-food Award of Excellence for Agriculture Awareness and Education the day before.

"The award is great, but it dims when compared to the engagement that is demonstrated by students who go through the experience," said Robinson.

All of the presentations were very creative – some with music, some with dancing, as shown by the following examples: The question of whether or not a turkey, found lying dead outside, had drowned in a rainstorm was answered by an FBI X-Files-type agent who told the farmer and another turkey, who was a witness to the death, that no, the turkey didn't drown. In a rainstorm, turkeys are at risk from electrocution, from overcrowding in a crowded pen, which can lead to suffocation, or from exposure because of harsh elements. The lesson for farmers is to keep turkeys in barns to prevent death and injury. ■

Families the subject of a new study

Project looks at better ways for low-income families to access social services

By Lee Craig

A \$10-million research project at the University of Alberta will explore the most effective ways for low-income families to access social and health services in Edmonton.

"It's about the right service for the right family in the right location at the right time," said Dr. Jane Drummond, a professor in the U of A Faculty of Nursing, vice-provost of the university's Health Sciences Council and the principal investigator for the study.

The five-year project, called Families First Edmonton, is looking for 1,200 volunteer families from north-central Edmonton to take part in the study. The project members include Alberta Human Resources and Employment, City of Edmonton Community Services and 13 other groups and agencies in the city.

"We know we have many excellent agencies available in social and health services in Edmonton and Alberta, but the services can be hard for families to access," Drummond said. "One of the questions driving this research is why is it that these services aren't being used as well as they

could be?"

"The study wants to find the best ways to improve the access to service and have families use more of the services available."

There can be barriers to this goal, either within or outside of families, Drummond said. It can be hard to take full advantage of services, for example, if a family has no vehicle to transport its children to a recreational program or if English is the second language in the home, and therefore communication is an impediment to making full use of a program.

External barriers could include the fact that an agency doesn't provide the full range of services a family might need; for example, English as a second language. So, some needs are met at one agency while other needs are overlooked.

Drummond, whose own research has focused on vulnerable families with children, said that these families often experience services – which were designed to help them – as fragmented and not meeting their needs.

A barrier to service could be something as simple as a family having to fill in forms repeatedly to access multiple agencies

when one form could suffice, she added.

"The workers for these agencies could come back to the committee and ask 'Is there a better way to do this?'"

Two other questions the project will address are the costs of the system and the health outcomes for the families, both parents and children.

"Are families moving from using emergency services to more preventative ones?" Drummond asked.

"There is a high percentage of depression in vulnerable families, and we know that when parents are depressed they don't respond optimally to their kids. Without better health outcomes, it costs our country, our workforce, future parents, the health care system."

Children from these families can miss out on many recreational or educational experiences and when that happens, they often don't build important social skills, Drummond said.

"Families are really aware they only have their child with them for a short time. Those early years are really important... parents can feel desperate."



The University of Alberta's Dr. Jane Drummond is heading up the five-year study.

Those who participate in the Families First Edmonton project will be placed randomly in one of four intervention groups for the study. Researchers from the U of A will follow those families for two years for the first part of the research. Then, they will follow up with the families for a further three years to determine the longer-term outcomes. ■



When rest and relaxation flirts with misfortune and misery

Ag/Forestry staffer returns from treacherous hike in Nepal

By Geoff McMaster

For Cynthia Strawson, 'travel bug' is an acute and permanent condition. There's rarely a time when the communications officer with the Faculty of Agriculture, Forestry, and Home Economics isn't planning her next great adventure.

She prefers to travel solo (more time for reflection), and has ventured to Chile, staying with a family in the Atacama Desert who spoke not a word of English. And three years ago she spent a term at the Faculty of Arts' School in Cortona, Italy, staying on after the term ended, to travel around Europe. It helps that she's a quick study with languages.

Even near disaster doesn't seem to discourage Strawson, as she discovered during a trip to Nepal last month. Her tour group narrowly escaped a fatal snowstorm that killed dozens of people only days after the group had passed through the Naar Phu Valley, bordering Tibet.

As they neared the end of an 18-day trek, snow fell hard, virtually unheard of in October. The plan was to take a plane from Humde to the lower and more temperate Pokhara, "lie on a deck, drink tropical drinks and fly back to Kathmandu," said Strawson.

"It snowed so bad there was no way the airport was going to be open," she said. Phone connections weren't working, power lines were down and helicopter pilots weren't about to take a chance. The only way out was to hike, for days, through the deep snow.

And so they walked, and as they descended, the snow turned to rain, "pouring rain for three days...My digital camera is dead; I could pull handfuls of water out of my raincoat pockets.

"It was a little scary," she admits, especially when the group had to resort to crawling over volatile landslides that threatened to carry them into deep gorges.

The worst moment of the journey, said Strawson, was when her group met up with a hiker who had just been in the Naar Phu Valley. He said he'd heard between

40 and 50 avalanches, and was told by a porter that a French climbing group and most of their porters had been swept into a gorge and killed.

The death toll didn't stop there, claiming even a herd of 300 hardy yaks, he told the group.

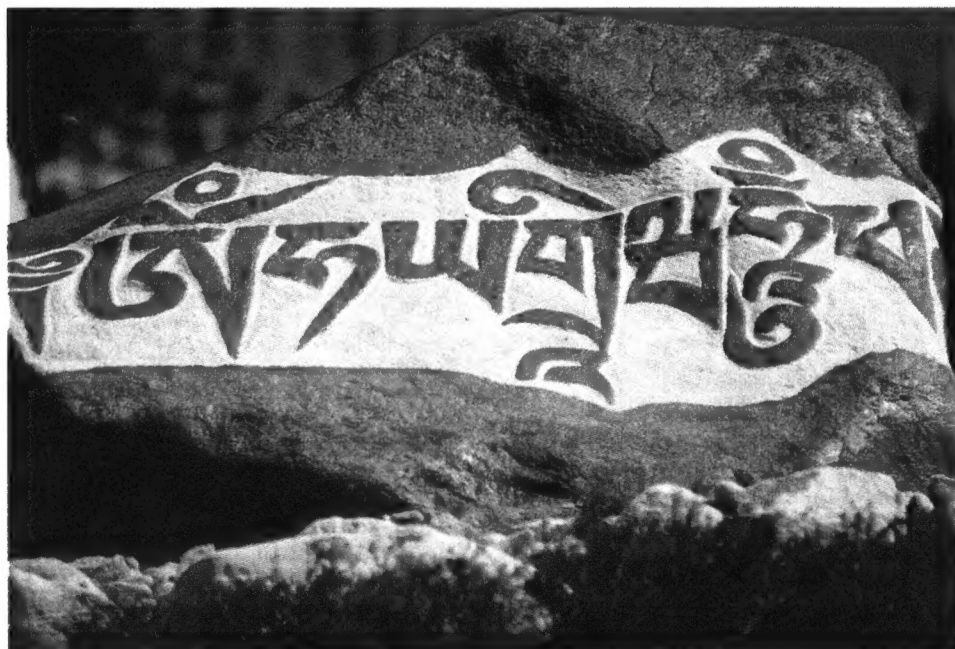
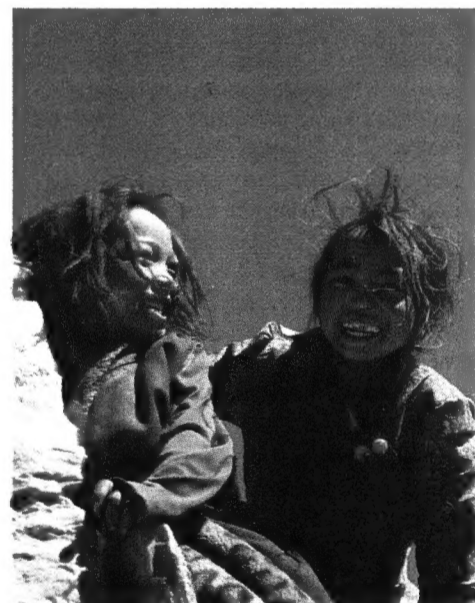
"How do you hike out of conditions that are so horrific and extreme that 300 woolly mountain yaks die? To find out that this is what had happened to people was really devastating," said Strawson.

"Every time we went past one of those Buddhist prayer wheels on the path, we'd think, 'Safe travel, safe travel, safe travel.' We're lucky that everybody in our group is healthy, no one's been hurt and we're alive." They all made it Kathmandu, the 18-day trip stretching to 24.

Despite that trying last leg, however, much of the trek was the journey of a lifetime, through a part of the country only recently opened to tourism. It was like stepping back into a pre-industrial world, said Strawson. The lifestyle is primitive, modern technology is almost non-existent.

The valley is in fact so remote that road repairs are done by labourers breaking rock into gravel with hammers. "People live in stone and mud huts, cook their food and heat their homes with dried yak dung...they don't have e-mail."

And yet the mountain surroundings inspired a profound sense of peace, Strawson said, which she continues to carry with her now back at work. "You know when people say, 'Go to your happy place?' Well I never had one. Now when I lay awake at night, I'm thinking about the rocks and the water, the trees and smells, and the rhythm of life, really."

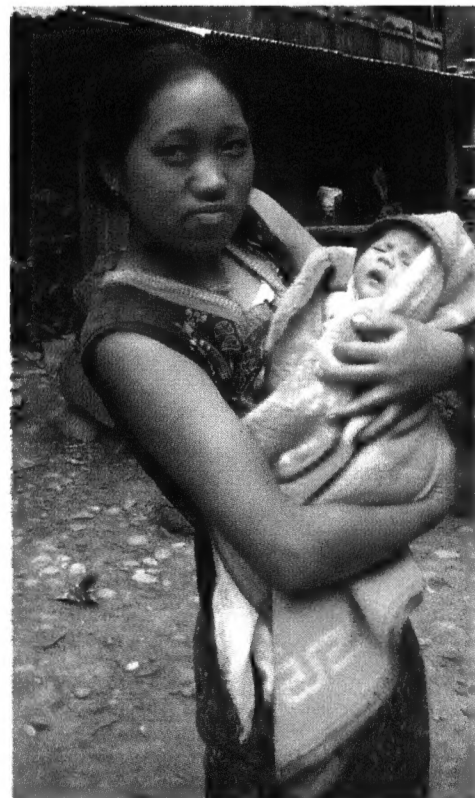


She also found that her priorities shifted while immersed in "the silence and experience of my own thoughts" on the trail. Strawson realized yet again that what most of us in the developed world take for granted (hot running water, enough to eat, a dry place to sleep) are luxuries in many parts of the world.

"If I don't get the bedroom painted just the right shade of purple, no big deal. If I have an electric range instead of a gas range, no big deal. At least I have a way to provide hot food without having to go out and gather dry dung to do so."

Her next big trip? Perhaps a hike from Northern France to Northern Spain, or another through Northern Ireland. But whatever the place, and however exciting, Strawson knows the best part of the experience is always coming home.

"I always tell people that no matter how much I love some of the other places I've been, and no matter how warm my memories are, Canada is the place to be. I even had a Maple Leaf tattooed onto my lower back in honour of the notion." ■



Photos: Cynthia Strawson



Germaine Hamilton



Gail Anderson



Gordon Langer

Photos: Caitlin Crawshaw

As good as gold

Honouring the people who make our university community vibrant

By Lee Craig

On November 23, the University of Alberta will once again honour its longest-serving employees and recognize the support staff members who keep the university in top form.

The Celebration of Service ceremony is an annual event recognizing the excellence of the U of A's support staff and Administrative Professional Officers (APO). Nominated by their peers, this year's six winners come from many different places on campus, but have all made major contributions to the U of A community.

ANNA MARGHELLA

Anna Marghella started working at the university part-time in 1976 when she was a young mother and later became a full-time building service worker. Over her 29 years at the U of A, she says the university has become a second home.

"Anna is an outstanding employee. She is a fantastic lady, and her peers across the university division have a lot of respect and affection for her," said Rob Griffiths, her supervisor in the Buildings and Grounds Services department.

"She is very dedicated to her job and is known by many staff, both academic and non-academic, in the campus buildings she has worked in over the years."

Marghella, who immigrated at age 14 to Edmonton from northern Italy with her parents and four brothers, said she likes to be a friend to everyone. "If someone has a bad day, I understand...We all have good days and bad days."

Griffiths cites Marghella's approachability, versatility and good customer service skills as qualities that make her both good at her job and deserving of the annual support staff award.

Marghella, who currently works in the Heritage Medical Research Building, said she is very happy about the award, but feels a bit shy about the attention.

GERMAINE HAMILTON

Germaine Hamilton graduated from the University of Alberta in 1977 with a diploma in dental hygiene and returned almost 20 years later to work as the supervisor of the dental hygiene clinic on campus.

"My husband and I lived all across Canada. Dental hygiene is a very portable job," said Hamilton, "but I was very glad to come back to the University to work around the students. That's a nice part of working at the university. The students keep you young and alive."

The clinic has an average of 40 students a year in its program. Hamilton, in addition to managing the public clinic, supervises the dispensary rotation, where she teaches students information about disinfection, preparation and how to assist.

Hamilton worked in private practice for 13 years and then in public health, after which she took computer courses to prepare for a job as an administrative assistant.

"I had applied for this position because it was just perfect, using my background

as a dental hygienist and my skills as an administrative assistant. When they interviewed me for the position, they thought that also. It was a good start, and it's been good ever since."

It is a big honour being nominated for the support staff award, said Hamilton. "That comes from the people I work with. We have a great team here."

GORDON LANGER

Gordon Langer considers himself a fortunate man to work as the administrative professional officer in the Department of Pediatrics and Child Health Services (Stollery Children's Hospital) at the U of A for the last 10 years.

"Where else would you work with the best people in their field anywhere in the world? And, in turn, be treated with respect by these people that I am in awe of...where else can an administrator say that?"

Langer is also the chief financial officer for the Edmonton Pediatric Services Corporation. His job in the Department of Pediatrics involves administrating for approximately 350 people in the department, from full-time faculty to clinical faculty to people in the residency program, Langer said.

"It is a multi-faceted job," he said, adding that a team effort is key.

"This recognition award really speaks to the team...I have a tremendous cast of people that I work with every day, including our chair, Dr. Terry Klassen, who has been absolutely supportive of my job and my efforts. Certainly we have an outstanding administrative team and all of those folks make my job a lot easier."

Langer said that one of the best parts of his job is when he hears about a child who is now healthy because of work at the hospital or in the department.

JIM NEWMAN

Over the 21 years Jim Newman has worked for Campus Security Services, he has worn many hats.

He has provided computer support, taught officer safety instruction (how to put on handcuffs and take down a suspect as safely as possible), analyzed crime trends

and statistics and worked on environmental health and safety issues. He likes the variety of his job and the independence.

"I am still connected to a lot of different people during the day, although often I work by myself," he said. "If you are doing this kind of work, you have to like people. If you don't like people, it is not the job for you."

Newman thanks his bosses for supporting him in the initiatives he has taken and in helping provide the variety he has enjoyed. He especially likes the more recent shift into analytical work and talks about "intelligence-led policing" and from this, projects that his coworkers are working on.

"If the officers are talking to someone on the campus, and they want to do background checks on them, if you can get information to them (through technology) that is accurate and timely, it is a great benefit because it helps them decide what action they should be taking."

Newman is proud of the job Campus Security Services does.

"Compared to the community at large with the size of our university, we have a very safe university. Our crime stats are quite low compared to the rest of the city."

GAIL ANDERSON

As a graduate program assistant in the Department of Mechanical Engineering since 1990, Gail Anderson has helped hundreds of graduate students go through the department.

"I help students right from when they first send an e-mail inquiry about the program," said Anderson, who has worked in the department since 1982 when she started as a clerk typist. "Once the professors decide who they want to apply, I follow their applications all the way through. After that, I help with registration, general questions about the program and the campus, where to live...all kinds of questions and concerns."

She also assists graduate students at different times – there are 220 graduate students in the department – with files and other organizational jobs, and helps professors organize exams.

Anderson said one aspect of her job

that stands out is assisting international students.

"We get graduate students from all over the world. I like the variety of the different cultures that people come from. You have to be adaptable, and try to understand how they might be feeling because everything is so new for them."

Working with the students, whether international or not, is an enjoyable part of Anderson's work, as is working with the professors and other office staff.

"The people here are very nice. It is a really great place to work."

CYNTHIA HENDERSON

Having great mentors at work is key to learning a lot on the job, says Cynthia Henderson, one of the recipients of the Administrative Professional Officer Recognition Award.

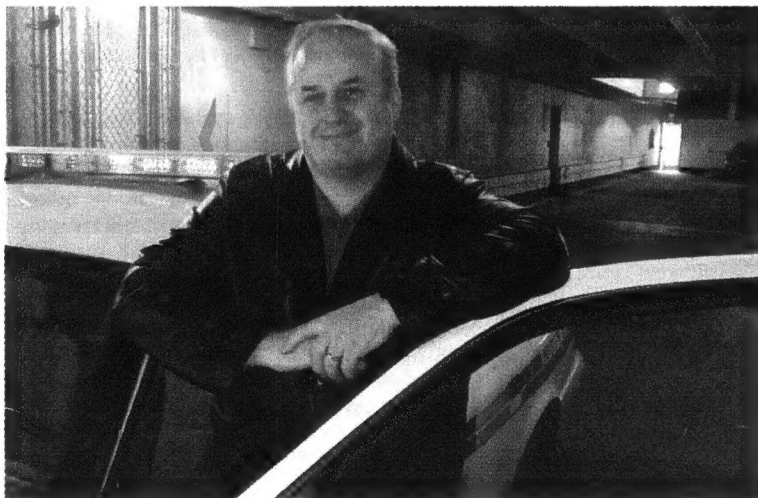
Henderson is the director of academic and research administration in the U of A Department of Oncology and a senior leader in academic and research administration for the Cross Cancer Institute. She has worked in that joint appointment for nine years.

"I feel very fortunate that I have many excellent staff members plus mentors within the department, in particular (department chair) Dr. Carol Cass, Dr. Linda Pilarski and Dr. Tony Fields, who were the individuals involved in my nomination. They have been my mentors ever since I've been here," said Henderson.

"Without their guidance and being able to follow in their footsteps, I don't think our department would have been as successful as we have been. I don't work in isolation – it's a team effort."

Henderson worked in nursing for a couple of years at the Royal Alexandra Hospital and then took a health record administration program at NAIT. In 1980 she started at the Alberta Cancer Board, where she first worked with Dr. Cass. After taking a number of management courses at the university, Henderson joined the Department of Oncology and began her career in research and academic administration.

This year's ceremony will be held on Nov. 23, at 3 p.m. at the Myer Horowitz Theatre. ■



Jim Newman



Cynthia Henderson

talks & events

Submit talks and events to Lorraine Neumayer by 12 p.m. Thursday one week prior to publication. **Folio Talks and Events listings do not accept submissions via fax, mail, e-mail or phone. Please enter events you'd like to appear in Folio and on ExpressNews at: <http://www.uofaweb.ualberta.ca/events/submit.cfm>.** A more comprehensive list of events is available online at www.events.ualberta.ca.

UNTIL DEC 1 2005

See the Stars at the Astronomical Observatory You are invited to observe stars, planets, galaxies and nebulae at the U of A observatory. We are open every Thursday evening from 8 p.m. until 9 p.m. during the academic year. Admission is free, all are welcome. The observatory is outdoors, on the roof of the Physics building, so please wear warm clothes. Physics Building: Take elevator to the 6th floor and take stairs to 7th floor.

UNTIL THURSDAY, MAR 16, 2006

Conserving Biodiversity in Northern Cities Leading researchers from around the globe will be speaking about conservation issues within northern cities. The series is free of charge and open to the public. Registration is not required. 4:30 p.m. Engineering Teaching Learning Complex Room 1 007.

UNTIL NOV 23, 2005

Dr. Steven Aung: retrospective of Medical Spiritual Paintings Dr. Steven Aung's medical practice is filled with "loving kindness". This is how he heals people. His art is the same: a healing process for all who look at it as well as for him, as an artist. It keeps him centered, focused on humanity, and in tune with the world around him. This special exhibition is a retrospective of the man and his art. Extension Centre Gallery, 2nd Floor, University Extension Centre, 8303-112 St.

NOV 18 - 20, 2005

The Alberta We Want - In Canada and the World Let's talk about building the Alberta YOU want! November 18-20 is Parkland Institute's ninth annual conference. The Alberta We Want. In Canada and the World features Maude Barlow, Andrew Nikiforuk, Heather Mallick, Aritha Van Herk, Jonah Gindin and the Honourable Doug Roche, and many other outstanding speakers. And don't miss our "Made in Alberta" World Party featuring Captain Tractor at the Powerplant! Join us for a meeting of great minds! The Parkland Institute annual conference planting seeds for a better

tomorrow! Call us at 492-8558 or visit us online at www.ualberta.ca/parkland to register today. 7:30 p.m. University of Alberta campus.

UNTIL NOVEMBER 18, 2005

Quilt Raffle Tickets If you are interested in purchasing a raffle ticket for a beautiful hand made quilt made by Betty-Anne Jansen, she can be reached at 492-2469 or e-mail betty-anne.jansen@ualberta.ca. 480 General Services Building.

NOV 18 2005

Chernobyl Catastrophe: Health, Environmental and Economic Consequences Guest Speaker from the Ukraine. 10:00 a.m. - 11:00 a.m. Classroom D - Walter Mackenzie Health Sciences Centre.

Health Ethics Seminar Ethics in Difficult Times: Preparing for a Pandemic. 12:00 p.m. - 1:00 p.m. Room 207, Heritage Medical Research Centre.

University Teaching Services (UTS) Enhancing learning in the Laboratory. The calendar description reads: "A credit/no credit course for supervised participation in a Faculty research project," but Biology 299 is much more than that. This session discusses a course that was designed to give undergraduate students research opportunities that enhance their learning. Presenter: Maggie Haag, Biological Sciences. Pre-registration required. 12:00 p.m. - 1:00 p.m. CAB 219.

Deaf Children's Awareness of Phonological Structure: Rethinking the 'functional equivalence' hypothesis By Dr. Lynn McQuarrie, Department of Educational Psychology, University of Alberta. 3:00 p.m. - 4:00 p.m. 651a Education South.

Pharmacy Career Fair Fourth year pharmacy students who want to connect with employers, this is the place to come. The Pharmacy Career Fair will provide students with the opportunity to network with over 20 employers. 3:00 p.m. - 7:00 p.m. Dinwoodie Lounge.

Toward a cellular model for distal renal tubular acidosis: trafficking defects of the human kidney anion exchanger in polarized

epithelial cells Speaker: Dr. Emmanuelle Cordat, Postdoctoral Fellow, Department of Biochemistry, University of Toronto. 3:00 p.m. 207 HMRC.

Cell membrane associated proteins and signaling Sarah Hughes, Department of Molecular Genetics and Cell Biology, University of Chicago, Chicago, Illinois is presenting a seminar on "Cell membrane associated proteins and signaling." 3:30 p.m. M-149, Biological Sciences Building.

Frances Bartkowski - "Apes 'r Us" Frances Bartkowski is author of *Travelers, Immigrants, Inmates: Essays in Estrangement* (University of Minnesota Press, 1995) and *Feminist Utopias* (University of Nebraska Press, 1991). With Wendy Kolmar, she is co-editor of *Feminist Theory: A Reader* (McGraw-Hill, 1999). "Apes 'r Us" is drawn from her book in progress, *Kissing Cousins: A Kinship Bestiary* for a New Century. 3:30 p.m. HC L-3.

Monitoring Secretion to Signal for Apoptosis Sarah Hughes, Department of Molecular Genetics and Cell Biology, University of Chicago, Chicago, Illinois is presenting a seminar on "Monitoring Secretion to signal for apoptosis" on as part of the Genetics 605 Graduate Student Seminar Series. 3:30 p.m. M-149. Biological Sciences Building.

Bears Hockey Bears vs. Regina. 7:30 p.m. Clare Drake Arena, Van Vliet Physical Education and Recreation Centre.

Fundraising Concert for IRSO A fundraiser for the victims of South-Asian Earthquake and our ongoing community development project. Construction of a community centre in Thirumullaivasal, a tsunami-affected seashore village in India. 8:30 p.m. - 10:30 p.m. Power Plant, U of A.

University of Alberta United Way Campaign Final Draw All donors making a donation to the University of Alberta United Way Campaign by 4:00 p.m. on November 18 will be eligible to win an airline ticket to Victoria, room accommodation at the Marriott Hotel and complimentary breakfast. 6-73 General Services Building.

NOVEMBER 19, 2005

Exam Strategies Do you know how to start studying and what to study? Get answers to these questions as well as learn how to study for and take multiple choice, short answer, essay and problem solving exams. This is a great workshop for new students and students who want to "gain an advantage" for exams. Pre-register at the Academic Support Centre 2-703 Students' Union Bldg. 9:00 a.m. - 12:00 p.m. 2-702 Students' Union Building (SUB).

Strategies for Learning Anatomy and Physiology Do you have an enormous amount of information to learn in your anatomy or physiology course? Come and learn useful strategies to help you remember those terms and concepts. Pre-register at the Academic Support Centre 2-703 Students' Union Building (SUB). 10:00 a.m. - 12:00 p.m. 239 Central Academic Building.

Health Sciences Career Fair The Health Sciences Career Fair is open to all students and alumni in the health sciences field. It is an opportunity to meet a variety of employers in this industry. 10:00 a.m. - 4:00 p.m. Dinwoodie Lounge (2-000, SUB).

Study Strategies Do you know how to get through all your course work and actually learn something? Discover practical time management, note-taking, reading and memory strategies that will help you study more effectively at University. Bring your study questions and get the answers you are looking for! Pre-register at the Academic Support Centre 2-703 Students' Union Building (SUB). 1:00 p.m. - 4:00 p.m. 2-702 Students' Union Building (SUB).

Violence in Video Games: Psychoanalysis, Education, Culture Dr. Jagodzinski, Professor, Secondary Education 2:00 p.m. - 3:30 p.m. Stanley A. Milner Library (Basement in the Edmonton Room), 7 Sir Winston Churchill Square.

Bears Hockey Bears vs. Regina. 7:30 p.m. Clare Drake Arena Van Vliet Physical Education and Recreation Centre.

The Pacific Baroque Orchestra The Pacific Baroque Orchestra, with soprano Phoebe MacRae, commemorates the 200th anniversary of the death of Luigi Boccherini with a concert featuring two of his works, the sublime *Stabat Mater*, and the lively *Musica Notturna delle Strade di Madrid*. The program also includes *Sammartini's* Symphony No. 2 in C minor and a new work for period instruments, *Jocelyn Morlock's* *Golden*, for Soprano and Strings. 8:00 p.m. Convocation Hall, Arts Building.

NOV 20 2005

Graduate Student Recital Graduate Student Recital The Pink Element Ensemble Wei Hsi Hu, conductor with Jeremy Spurgeon, piano Daniel Davis, saxophone presents *Chichester Psalms*: Bernsteins

and other works by Daunais, Rameau, Pearsall, Brahms, and Barber. 3:00 p.m. Arts Building/ Convocation Hall.

U of A Davis Concert Organ Constellations: Organ Extravaganza A Concert in Honour of the late Dr Stuart Davis (University of Windsor, Ontario) Featuring the consummate artistry of Distinguished Visiting Artist David Palmer, organ with Brian Jones, percussion and Duo Majoya : Marnie Giesbrecht and Joachim Segger, organists Constellations: A concerto for organ and percussion: Dan Locklair Cortège and Litany: Marcel Dupré Shadow Variations: Brent Lee Sarum Variations on an Advent Chant: Deirdre Piper Symphony No. VI, I Allegro: Charles-Marie Widor Variations on an Original Theme for Organ Duet: Barrie Cabena 8:00 p.m. Winspear Centre for Music.

NOV 21 - NOV 25, 2005

ECOS Free Store/ Item Exchange The Environmental Coordination Office of Students (ECOS) organizes a week-long Free Store leading up to Buy Nothing Day. The Free Store is a chance for people to pick-up/drop/swap items at no cost, thereby reducing the need for market based consumption. 10-3 p.m. everyday! Items must fit on a table to be permissible i.e. no furniture. All are welcome to participate. Nov. 21, main floor SUB; moves to CAB, ETLC, SUB, Bus/ Tory atrium rest of week.

NOV 21, 2005

Translational Research Lecture The Faculty of Medicine and Dentistry and the Department of Medicine cordially invite you to attend the Fourth Annual Translational Research Lecture sponsored by Merck Frost Canada Inc. The lecture will be given by Dr. Duncan Stewart, Chief of Cardiology at the University of Toronto. Dr Stewart's talk is entitled, "Seeds of Hope? Cell and Gene Therapy for Cardiovascular Diseases." A reception will follow in the Bernard Snell Hall Lower Level Foyer. All are welcome. 4:00 p.m. - 5:00 p.m. 227 Medical Sciences Building.

NOV 22, 2005

New Staff Orientation All new academic and support staff are invited to attend orientation to the university This general orientation will introduce you to the business of the U of A. Hear what U of A leaders have to say about our mission and vision, learn about campus life and resources to support you professionally and personally, find out about U of A staff associations and HR services If you have worked at the U of A for awhile, but have not attended a previous orientation, you are welcome to join us at Orientation. Advance registration is required. Register online at The Learning Shop: www.learningshop.ualberta.ca. 8:30 a.m. - 3:30 p.m. Lister Hall, Maple Leaf Room.

Nanotechnology: A Biological Perspective Dr. Zoltan Gombos, Assistant Research Officer, Nano Life Sciences Group, National Research Council of Canada, National Institute for Nanotechnology is presenting a seminar on "Nanotechnology: A Biological Perspective." 12:00 p.m. T 1-90, Tory.

Science and Policy III: Killam Professor of Ecology, Dr. David Schindler Dr. Schindler will speak about his less well-known experiences with government and industry in determining the state of the environment. 4:30 p.m. - 5:30 p.m. E T L C 1 007.

University Symphony Orchestra University Symphony Orchestra Michael Massey, Conductor Concerto Competition Finals 8:00 p.m. Arts Building/Convocation Hall.

NOV 23, 2005

Parallel Programming with MPI (WestGrid Seminar Series) Join Masao Fujinaga, a Programmer/Analyst with AICT at the University of Alberta, for his presentation on Parallel Programming with MPI (Message Passing Interface). His discussion will focus on C and Fortran. To attend this session, please send RSVP Jon Johansson at jonj@ualberta.ca 9:30 a.m. - 12:30 p.m. Access Grid Room (315 General Services Building).

Dr. Robert Hegele presents "Phenomics: evaluating the phenotype in the context of molecular diagnosis" Dr. Robert Hegele, Professor of Medicine and Biochemistry and one of the major planners and initiators of "Putting the Geel in Genome" will present a seminar, "Phenomics: evaluating the phenotype in the context of molecular diagnosis" to all faculty and trainees of Medical Genetics and to all others interested. Everyone welcome! 12:00 p.m. - 1:00 p.m. 2-07 HMRC.

Health Law Institute Seminar Series "Courting Trouble: The Supreme Court's Embrace of Private Health Insurance" Colleen Flood, Canada Research Chair in Health Law & Policy and

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Associate Professor of Law, University of Toronto, Peter Carver, Assistant Professor, Faculty of Law, University of Alberta. 12:00 p.m. - 1:00 p.m. Room 231 Law Centre.

PHS Grand Rounds Guest Speaker: Dr. Christine Friedenreich, Director, Population Health Research, Division of Population Health and Information, Alberta Cancer Board; Adjunct Associate Professor, Alberta Cancer Board and University of Calgary “Exploring Energy Balance and Cancer” 12:00 p.m. - 1:00 p.m. Room 2-117, Clinical Sciences Building.

EFS Fall Equity Seminar: Professor Andre Grace, Faculty of Education Instructing Lesbian, Gay, Bisexual, Trans-gendered, and Queer Youth: Sensitivities and Sensibilities Surrounding Matters of Context, Disposition, and Relationship in the Teaching-Learning Interaction 3:00 p.m. - 4:00 p.m. HC L-3.

Town Hall Meeting - Vision and Values “Dare to Discover: A Vision for Our Second Century” An opportunity to hear and comment about the draft document on values and vision for the University of Alberta from the President. She would like input from the full university on this plan before moving forward. Please see the draft document, “Dare to Discover.” <http://www.president.ualberta.ca/pdfs/UofAValues2005-10-20.pdf>. 3:00 p.m. - 4:30 p.m. Maple Leaf Room, Lister Hall Conference Centre.

Etched in Stone: The Mandalas of Bodh Gaya – a talk by Dr. James B. Apple. Mandalas are generally understood to be spheres, circles, or what recent scholarship has classified as geometric psychocosmograms. Mandalas are considered to have psychological and/or soteriological significance in South and East Asian Buddhist cultures. 3:30 p.m. Tory B-87.

International Dinner The world’s largest student-run organization would like to invite you to share in a fun filled night of international cuisine and performers! 7:00 p.m. - 9:30 p.m. Stollery Centre, 5th Floor Business Building.

Working with Multilateral Development Agencies: Canada’s Experience Dr. Bruce Montador, vice-president, Multilateral Programs Branch, Canadian International Development Agency. IPE Public Policy Workshop, 3:30 - 4:30 pm 8-22 HM Tory.

NOV 24, 2005

Reading by Catherine Owen Catherine Owen is a Vancouver poet. Her poems have been published in journals across Canada and her books include: Somatic: *The Life and Work of Egon Schiele* (Exile Editions, 1998, nominated for the Gerald Lampert Award), *Black Milk, Starvation Landscape*, and *The Wrecks of Eden* (Wolsak & Wynn, 2001, nominated for the Dorothy Livesay Award).

Emergent Phenomena and Theoretical Principles Margaret Morrison Department of Philosophy University of Toronto. 3:30 p.m. Humanities Centre 4-29.

NOV 24 - NOV 25 2005

Diana Brydon - “Globalization, Cultural Studies and the Research Imagination”; “Metamorphosis of a Discipline: Rethinking the Canadian Literary Institution” Diana Brydon, Robert and Ruth Lumsden Professor of English at the University of Western Ontario, has published on postcolonial fiction and theory, specializing in Australia, Canada and the Caribbean. 3:30 p.m. - 4:30 p.m. HC L-3.

NOV 24 2005

Dr Joann Freed (Wilfrid Laurier University) “Amphora Stamps: a Contribution to the History of Punic Carthage” Colloquium Lecture Series in the Department of History & Classics Biography Dr. Joann Freed has a wealth of hands-on archaeological experience, as well as being Chair of the Archaeological Department at Wilfrid Laurier University. http://www.wlu.ca/homepage.php?grp_id=908&ct_id=772&f_id=35 . For more information, please contact Dr. Margriet Haagsma at margriet.haagsma@ualberta.ca or the Department of History & Classics at (780) 492-3270. 3:30 p.m. - 4:30 p.m.

Math and Stats Colloquium Moritz Heimpel, Department of Physics University of Alberta. “Deep Convection Models of Zonal Flow on the Giant Planets.” 3:30 p.m. - 4:30 p.m. CAB 265. Refreshments will be served in CAB 649 at 3:00 p.m.

Our North America speakers series - Enduring Issues: Crime The Department of Political Science speakers series “Our North America” presents Jorge Chabat of Centro de Investigacion y Docencia Economicas (Mexico City), and Kevin Haggerty and Phil Boyle of the U of A presenting on “Enduring Issues: Crime.” 3:30 p.m. - 5:00 p.m. Tory Basement 45.

Silent Art Auction The silent art auction is a fundraiser for the BDES & BFA graduates of 2006. There will be hourly bid rounds featuring the works of up-and-coming designers and artists, including paintings, drawings, sculptures, photographs, prints and more. Admission is free, and it is a catered event with alcoholic and non-alcoholic

beverages available. 6:00 p.m. - 10:00 p.m. 3rd floor, Fine Arts Building, U of A campus, 112 Street & 89 Avenue.

Lethbridge & District Alumni 4th Annual Unique Experiences Event The Lethbridge and District Branch of the University of Alberta Alumni Association is honoured to have Dr. Van Christou present a new slide collection taken during his fourteenth and most recent visit to Greece. This is the fourth annual installment of the unique experiences series supported by the Lethbridge Branch. \$35/person For more information, contact Branch President Pat Brown (pjbrown@theboss.net).To RSVP, send cheque payable to the University of Alberta Alumni Association Lethbridge Branch and contact Laurence Hoyer at 403-381-4120 or by email at hoye@uleth.ca. 6:30 p.m. The Garden Court Lethbridge Community College, 3000 College Drive South, Lethbridge. AB.

Dr Joann Freed - Out of Africa: Mosaics from Carthage in the British Museum A joint lecture with the Archaeological Institute of America (AIA) and the Edmonton Mediterranean Institute. For further information, please contact either Dr. Nicholas Wickenden at nicholas.wickenden@ualberta.ca or Dr. Jeremy Rossiter at jeremy.rossiter@ualberta.ca All are welcome and refreshments will be provided. 7:00 p.m. - 8:00 p.m. Lecture 1 Humanities Centre.

NOV 25 - 26 2005

5th Annual Agape Conference 5th Annual Agape: Sex, Sexual, and Gender Differences in Education and Culture Conference November 25 & 26th, 2005, Faculty of Education, University of Alberta, free admission.Come and help celebrate our 5th Anniversary at this conference designed to build leadership and educational supports for lesbian, gay, bisexual, trans-identified, queer, and allied youth. Friday, November 25th, 7:00 - 9:00pm (Room 129, Education South Building, Faculty of Education, University of Alberta). Saturday, November 26th, 9:00 - 4:00 p.m. (Room 129 & 122, Main Floor, Education South Building, Faculty of Education, University of Alberta). If you have a question about Agape or the conference, please email Dr. André P. Grace at andre.grace@ualberta.ca or Kris Wells at kwells@ualberta.ca or contact the Agape Project Office at 492-0772 or visit us at 5-181K in the Education North Building.

NOV 25 2005

Ciliary Trafficking of Polycystin-1: New Insights on The Molecular Basis of ADPKD Pathogenesis Speaker: Dr. Yiqiang Cai, Associate Research Scientist, Section of Nephrology, Yale University School of Medicine 3:00 p.m. 207 HMRC.

Physics Colloquium Molecular Dynamics Simulations in Environmental Materials Science: Room-Temperature Ionic Liquids, Hydrogen Clathrates, and Calixarenes Speaker: Saman Alavi Steacie Institute for Molecular Sciences, National Research Council of Canada, Ottawa, Ontario The emphasis will be on how molecular dynamics, along with statistical mechanical modeling, can help in the understanding these complex systems and complement experimental studies. 3:15 p.m. - 4:00 p.m. V-128 Physics.

Monitoring Secretion to signal for apoptosis Thomas Simmen, Department of Cell Biology, University of Alberta, is presenting a seminar on “Monitoring Secretion to signal for apoptosis” as part of the Genetics 605 Graduate Student Seminar Series. 3:30 p.m. M-149, Biological Sciences Building.

Bears Volleyball Bears vs. Trinity Western. 7:00 p.m. Main Gym Van Vliet Physical Education and Recreation Centre.

Pandas Hockey Pandas vs. Manitoba. 7:00 p.m. Clare Drake Arena Van Vliet Physical Education and Recreation Centre.

Music at Convocation Hall I Music at Convocation Hall I. Jolaine Kerley, soprano; Karen Zaidan, soprano; John Brough, countertenor; Timothy Shantz, tenor; John Huck, tenor; Leonard Ratzlaff, baritone; Adam Wead, theorbo; Josh Lee, viola da gamba. Love and Lament in Italy Songs by Claudio Monteverdi, Luzzasco Luzzaschi, Giulio Caccini and Girolamo Frescobaldi. 8:00 p.m. Arts Building/Convocation Hall.

NOV 26 - 27 2005

The Tempest by William Shakespeare Directed by MFA Directing Candidate Andrea Boyd Be not afraid, the isle is full of noises, sounds, sweet airs, that give delight, and hurt not...please sign-up on the sheet posted outside the Drama Office (3-146 FAB) to reserve a free seat. Media Room/1-63 Fine Arts Building.

NOV 26 2005

Bears Volleyball Bears vs. Trinity Western. 7:00 p.m. Main Gym Van Vliet Physical Education and Recreation Centre.

Pandas Hockey Pandas vs. Manitoba. 7:00 p.m. Clare Drake Arena Van Vliet Physical Education and Recreation Centre.

NOV 27 2005

The University of Alberta Academy Strings The University of Alberta Academy Strings. Guillaume Tardif, Director. Concerto Grosso: Corelli Five Fugues for String Quartet: JS Bach/Mozart O mensch, bewein dein Sünde gross: JSBach/Reger Adagio and Fugue, Op 78a: Krenek Concerto in D: Stravinsky 8:00 p.m. Arts Building/Convocation Hall.

NOV 28 2005

Community as curriculum: Action research for linguistic diversity Sandra Schecter is a Professor of Education and Applied Linguistics at York University, where she teaches courses in first and second language pedagogy and research methods. An ethnolinguist, she conducts research on language education, language socialization, and language planning in the context of bi- and multi-lingual societies. 12:00 p.m. - 1:00 p.m. 633 Education South.

New Business: University of Alberta’s Values, Vision, Mission, and Cornerstones (and Planning Document Schedule); New Buildings on Campus: Presentation by the Vice-President (Facilities and Operations). 2:00 p.m. Council Chamber (2-1 University Hall).

Festival of Nine Lessons and Carols Festival of Nine Lessons and Carols U of A Faculty of Education Handbell Ringers Robert de Frece, Director with Organists Marnie Giesbrecht and Joachim Segger 7:30 p.m. Winspear Centre for Music.

NOV 29 - NOV 30, 2005

Library Craft Sale Library Craft Sale. Free Admission/Door Prizes. 9:30 a.m. - 3:00 p.m. Professors Emeriti Reading Room, 3-03 Cameron Library.

NOV 29 2005


Beta-cell adaptation and failure in the pathogenesis of type 2 diabetes Visiting speaker seminar: Dr. Diane Finegood, Scientific Director, CIHR Institute of Nutrition, Metabolism and Diabetes; Professor, Simon Fraser University 11:00 a.m. - 12:00 p.m. Classroom F WMC.

Changes in sodium and potassium currents during development in zebra fish Chris Coutts, M.Sc. Candidate (Ali), Department of Biological, Sciences, University of Alberta is presenting a seminar on “Changes in sodium and potassium currents during development in zebra fish” 12:00 p.m. T 1-90, Tory.

World Music Sampler The Canadian Centre for Ethnomusicology presents 2005 World Music Sampler A Tribute to Moses Asch and Folkways Records Featuring the University of Alberta Department of Music World Music Ensembles and several performers from the Edmonton community 8:00 p.m. Arts Building/Convocation Hall.


NOV 30 2005

Interleukin-1: a non-MHC locus associated with susceptibility to Ankylosing Spondylitis



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positions

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UNIVERSITY OF ALBERTA, AUGUSTANA FACULTY

The University of Alberta's new Augustana Faculty has embarked on a dynamic, multi-year program of renewal and growth. It expects to make at least three appointments at the rank of Assistant Professor, commencing July 1, 2006, for which it invites applications in the disciplines indicated below.

The Augustana Faculty teaches more than 1,000 students in baccalaureate degree programs on a picturesque residential campus in the city of Camrose, 90 km southeast of Edmonton. After a long educational history, including two decades as an independent, degree-granting university college, Augustana was incorporated into the University of Alberta in July 2004. The Faculty is committed to building on its reputation for rigorous, high-quality teaching in the tradition of the liberal arts and sciences, and, in doing so, providing a distinctive undergraduate academic experience for students within one of Canada's leading universities. It seeks to attract promising scholars who will share its enthusiasm for teaching in a small-campus environment, participate actively in a collegial culture of inquiry and public engagement, and flourish as researchers in an undergraduate, interdisciplinary, and rural location.

For all positions, the ability to contribute to areas of interdisciplinary strength and interest for the Faculty will be an asset. Those areas include environmental studies, international development studies, rural and northern studies, and women's studies.

For information about Augustana and particular programs, please consult the Faculty website at www.augustana.ca. Inquiries concerning any of the positions in this advertisement should be directed to the Chair of the relevant department.

ART (STUDIO)

The Department of Fine Arts invites applications for a position in art studio. This position requires a generalist with an MFA in a studio discipline (or equivalent) to teach a broad range of studio practices for an art program within a liberal arts degree program. This program concentrates on traditional practices within a contemporary milieu and seeks connections to a wide array of inquiry. Foundation studies will form the core of this position but it will also include introductory and senior courses in drawing, painting, sculpture, and digital media. Candidates must demonstrate a versatile teaching ability that can address students at diverse stages of artistic awareness. Post-secondary teaching experience is essential as is demonstrated proficiency in descriptive drawing methods. Secondary teaching experience would be an asset. Candidates should also have an active studio practice in one of the aforementioned areas. Opportunities for interdisciplinary teaching are available, so scholarly knowledge and experience in aesthetics, theory, history, and contemporary developments in the art world would be an asset. Applicants should submit curriculum vitae, including evidence of successful teaching and examples of their recent studio work. The latter can be slides or a CD-rom in JPEG or TIFF formats. Chair: Keith Harder (keith.harder@ualberta.ca).

BIOLOGY

The successful candidate will have a PhD in either Microbiology or Molecular Biology and will be expected to teach courses in both areas. Applicants should be interested in helping to build a student-friendly, teaching-oriented Biology program that also recognizes the value of research. Chair: Dr. Neil Haave, Science (neil.haave@ualberta.ca).

ECONOMICS/MANAGEMENT

This position involves teaching in both the Economics and Management programs. While any area of specialization will be considered, preference

will be given to applicants whose teaching interests include Industrial Organization and Public Finance, and who can contribute to the development of a relatively new Management program. Applicants should possess a PhD in Economics, Finance or Business, or be near completion of that degree. An additional full-time, term-limited appointment in Management is also being contemplated. Chair: Dr. Jeremy Mouat, Social Sciences (jeremy.mouat@ualberta.ca).

ENVIRONMENTAL SCIENCE/STUDIES

The successful candidate will contribute to two proposed interdisciplinary programs, a B.Sc. in Environmental Science and a BA in Environmental Studies. Applicants should be able to teach GIS, statistics, and senior courses in a specialty area. Ability to teach related environmental courses (e.g., resource management, freshwater systems, field methods, history, or politics) would be an asset. Applicants should possess or be near completion of a PhD in Environmental Science/Studies, Geography or related field. Chair: Dr. Neil Haave, Science (neil.haave@ualberta.ca).

MUSIC

The successful candidate will teach in two of the following three areas: music history, music theory and ethnomusicology. Opportunities for teaching in music composition, women's studies and interdisciplinary studies may also be available. Applicants should have expertise and interest in introducing students to a variety of music (classical, popular, world) and contemporary critical perspectives. A completed PhD or equivalent is the minimum academic qualification. Chair: Keith Harder, Fine Arts (keith.harder@ualberta.ca).

PHILOSOPHY

The successful candidate will become the fourth member of a new degree program in Philosophy and Religion. Applicants should have expertise in at least one area of the history of philosophy and be competent to teach a variety of undergraduate classes, including introductory courses and critical thinking. The ability to teach a course in Philosophy and the Environment will be an asset. Applicants should possess or be near completion of a PhD. Chair: Dr. Paul Harland, Humanities (paul.harland@ualberta.ca).

PHYSICAL EDUCATION

The successful candidate will teach in the area of exercise sciences as one of five faculty members in a Physical Education degree program that covers two streams: Kinesiology and Sport Studies, and Outdoor Education. Candidates should have expertise in at least two areas of exercise sciences and be competent to teach a variety of undergraduate classes such as human anatomy, exercise physiology, advanced training methodologies, biomechanics, and human physiology. A research interest in the area of fitness and aging will be an asset. Applicants should possess or be near completion of a PhD. Chair: Yvonne Becker, Physical Education (yvonne.becker@ualberta.ca).

All appointments will be made at the rank of Assistant Professor. The current salary scale begins at \$53,580; the benefit package is comprehensive.

Applicants should submit curriculum vitae, including evidence of successful teaching and samples of scholarly work, and arrange to have transcripts and three confidential letters of reference sent to:

Dr. Roger Epp
Dean (Acting)
Augustana Faculty
University of Alberta
4901-46 Avenue
Camrose, AB, T4V 2R3
Email: Roger.Epp@ualberta.ca

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assistance and advice in preparing nominations should contact Ms Margaret Wilson,
Acting Director, University Teaching Services, 215 Central Academic Building (492-
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ELECTION COMMITTEE FOR DEAN OF AUGUSTANA FACULTY

An advisory Selection committee has been
established in accordance with University regula-
tions to begin the search for a new Dean.

At this point in its deliberations, the Selection
committee requests your opinions on the leader-
ship needs of the Faculty in the years ahead and
any other key issues. You are urged to contact
members of the committee, or write to me as chair,
to express your views on priorities of the Faculty,
current issues, and the future direction of the
Faculty. All submissions to the committee must
be signed, and will be shared with the committee
either in original form or summarized form. The
Selection committee shall make every effort to
ensure confidentiality. In order to facilitate the
committee's work, please submit your comments
by November 28, 2005.

In addition, individuals who may wish to stand
as a candidate are invited to apply. Individuals
may also nominate others who they feel would be

Dean Selection Committee Membership: Augustana Faculty

Committee Member	Phone	E-mail
Dr. Carl Amrhein	492-3443	carl.amrhein@ualberta.ca
Dr. Andy Greenshaw	492-2918	andy.greenshaw@ualberta.ca
Dr. Jerry Varsava	492-7034	jerry.varsava@ualberta.ca
Professor Kathleen Corcoran	679-1167	kathleen.corcoran@ualberta.ca
Dr. Neil Haave	679-1506	neil.haave@ualberta.ca
Professor Stacy Lorenz	679-1196	stacy.lorenz@ualberta.ca
Dr. Harry Prest	679-1520	harry.prest@ualberta.ca
Dr. Thian Gan	492-9376	tgan@ualberta.ca
Mr. Mark Chytracsek	679-1181	mark.chytracsek@ualberta.ca
Ms. Susan Malone	679-1105	susan.malone@ualberta.ca
Mr. John Pattison	672-6389	johnp@ualberta.ca
Ms. Elizabeth Trempner	672-0377	emtl@ualberta.ca

suitable candidates. A copy of the position adver-
tisement will be posted soon on the University of
Alberta careers website: www.careers.ualberta.ca.

Your views are important to us and will be
solicited again later in the process with an oppor-
tunity, at that time, to meet and question our final
short-listed candidates at public forums. Thank you
for your assistance.

Please forward your comments to the address
below or to any member of the Dean Selection
Committee (contact information below):

Provost and Vice-President (Academic)
2-10 University Hall
University of Alberta
Edmonton, AB T6G 2J9
E-Mail: provost@ualberta.ca
Carl G. Amrhein
Provost and Vice-President (Academic)
Chair, Dean Selection Committee
Augustana Faculty

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You can also visit www.mastercard.ca and click "Consumer Education."





Human ecology student and exhibit curator Anne Hill.



Buddhist shrine arranged by Edmonton's Lama Kushok.

Photos: Caitlin Crawshaw

divine inspiration

Inspired by its Buddhist roots, Tibet's vibrant textiles offer a window into its culture and people

By Caitlin Crawshaw

This month, long-time Buddhist Anne Hill fulfills a wish of her late family friend.

Tibet and Beyond, an exhibit curated by the human ecology graduate student, is a glimpse into the fabric of Tibetan culture, and showcases traditional Tibetan textiles influenced by the culture's Buddhist roots. And her close friend, a Buddhist monk who gave lectures on Buddhism at the University of Alberta in the 1990s, would have loved the exhibit, she says.

"Lama Kaldan always wanted the U of A to put on something for the Tibetan culture," says Hill.

"He liked the fact that the university community acknowledged the Tibetan people and their culture. The cultural exhibit would have pleased him immensely."

Hill's exhibit is up in the Human Ecology building foyer until Dec. 6, and compliments her graduate research on the importance of costume and performance to Tibetan women in Calgary.

"It's very important for them to perform traditional dances in traditional dress...to represent their culture on the Canadian stage," Hill says. She explained that since China's occupation of Tibet in 1959, thousands of Tibetans – like the dancers featured in Hill's thesis, and the late Lama Kaldan – have scattered across the globe. In 2005, they struggle to hold on to their culture.

After completing her undergraduate degree in home economics in the 1980s, Hill became interested in Buddhist thought and got to know the Tibetan community in the province, since Buddhism is the dominant religion in Tibet. "I'm fascinated and spellbound by the culture and the people," she says.

So when she went back to pursue graduate school in 2003, choosing her research area was easy.

"It's like the topic picked me. I've known the Tibetan community for 22 years. I was introduced to a lama in the 1980s, and I've had a longstanding connection with the Buddhist community in Alberta."

In creating the exhibit, Hill worked with Tibetans in Alberta, and many of the garments featured were supplied by people in Calgary. The exhibit features clothing worn by both men and women, including the horseman's garb, complete with felt chaps, a yellow silk *chuba* (robe) and red *shongsha* and the blue woman's *chuba*, which boasts a striped *pangdhen* (apron)

worn only by married woman.

Because Tibet is so heavily influenced by Buddhist thought, its textiles reflect this important element. For this reason, a Buddhist shrine designed by Lama Kushok of Edmonton's Tibetan Buddhist Centre forms the exhibit's centre piece.

Auspicious colours like saffron and turquoise hang above a shrine's mantle, upon which flowers and ritual objects sit. Among them, bowls of rice and incense, *mala* (prayer beads), *damaru* (ritual drum) and a bell with *dorjee* (thunderbolt symbol). Like the clothing textiles, the eight Buddhist symbols are delicately woven into the eye-catching tapestries adorning the shrine.

While the garments juxtapose bright hues and different designs and fabrics, all of the elements work together in harmony, says Hill. "There's many elements to it, but there's a coherence," she says. "The Tibetans are able to bring many elements together, but with balance."

"When you look at Tibetan costumes, you can't help but be hooked, because visually there's such a strong aspect to it that you cannot ignore it."

Hill says the exhibit and her thesis work have shown her the richness and complexity of Tibetan culture.

"It's true that the more you learn about something, the more you know you're just learning more. There's a lot more to do in the area, I could do a lot of work. ■



Horsemen's dress (central Tibet)



Women's dress (central Tibet)

folio **back**
page